

Section 7 — Dual-Decad ϕ^n Ladder (Electron–Proton System)

The Dual-Decad ϕ^n Ladder is one of the foundational discoveries of the FUNt framework. It describes a ten-step harmonic hierarchy governing the behavior of electrons and protons across ϕ -tiered modes. Each rung n (from 0 to 9) corresponds to a power ϕ^n , which defines a discrete physical behavior for both particles. Despite their opposite charges and roles, electrons and protons climb the same ϕ^n ladder with mirrored but structurally aligned modes.

7.1 ϕ^n Values for $n = 0 \dots 9$

- $\phi^0 = 1.000$
- $\phi^1 \approx 1.618$
- $\phi^2 \approx 2.618$
- $\phi^3 \approx 4.236$
- $\phi^4 \approx 6.854$
- $\phi^5 \approx 11.090$
- $\phi^6 \approx 17.944$
- $\phi^7 \approx 29.034$
- $\phi^8 \approx 46.978$
- $\phi^9 \approx 76.013$
- [Insert ϕ^n diagram here]

7.2 Mirrored Electron–Proton Decad Table

The Decad table defines each ϕ -tier's behavior for both electron and proton. Although the underlying physics differ (magnetic buoyancy for electrons, torsional strain for protons), both align to the same harmonic structure.

ϕ^0 Mode

- Electron: Electron: Localized rest mode
- Proton: Proton: Hydrogen ground-anchor
- [Insert dual-decad diagram here]

ϕ^1 Mode

- Electron: Electron: Drift-current onset

- Proton: Proton: Initial magnetic onset

- [Insert dual-decad diagram here]

ϕ^2 Mode

- Electron: Electron: Diamagnetic buoyancy

- Proton: Proton: Pre-magnetic torsion shell

- [Insert dual-decad diagram here]

ϕ^3 Mode

- Electron: Electron: Hall-coupled flow

- Proton: Proton: Magnetic stabilizer

- [Insert dual-decad diagram here]

ϕ^4 Mode

- Electron: Electron: Spin-torque transfer

- Proton: Proton: Catalytic torsional lever

- [Insert dual-decad diagram here]

ϕ^5 Mode

- Electron: Electron: Tunneling entry mode

- Proton: Proton: Compression shell

- [Insert dual-decad diagram here]

ϕ^6 Mode

- Electron: Electron: Cooper-pairing onset

- Proton: Proton: Fusion bridge

- [Insert dual-decad diagram here]

ϕ^7 Mode

- Electron: Electron: Photon-like behavior

- Proton: Proton: Decay-coupler resonance

- [Insert dual-decad diagram here]

ϕ^8 Mode

- Electron: Electron: Bi-photon entanglement

- Proton: Proton: Positron-mirror torsion

- [Insert dual-decad diagram here]

ϕ^9 Mode

- Electron: Electron: Scalar transport mode
- Proton: Proton: Scalar torsion collapse
- [Insert dual-decad diagram here]

7.3 Applications of the Dual-Decad System

- Maps energy levels, tunneling windows, decay timing, and photon-like behavior.
- Defines symmetry between electron buoyancy and proton torsion.
- Establishes φ^7 as universal decay and coherence threshold.
- Predicts antimatter mirror symmetry in φ^8 rung.
- Provides scalar inversion behavior at φ^9 .
- [Insert application diagram here]